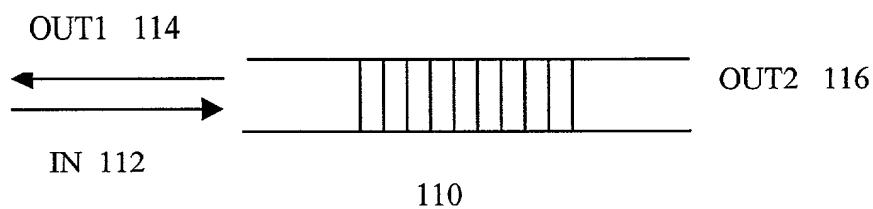


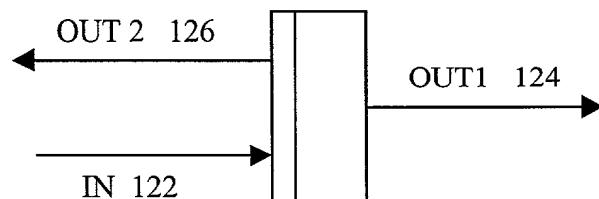
100

FIG. 1A
(PRIOR ART)



110

FIG. 1B
(PRIOR ART)



120

FIG. 1C
(PRIOR ART)

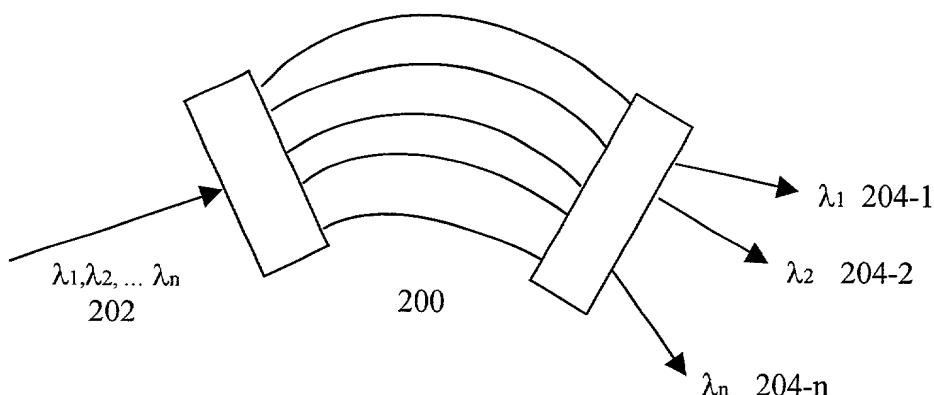


FIG. 2A
(PRIOR ART)

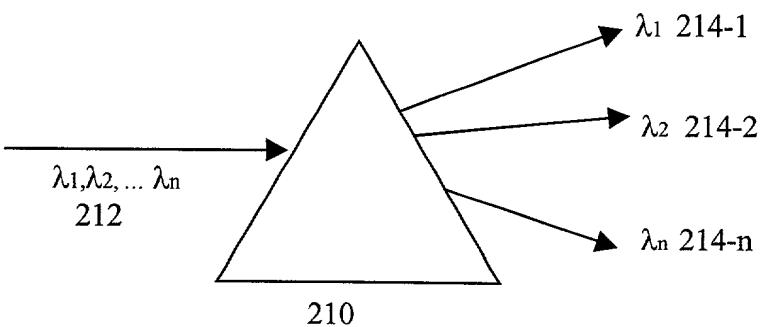


FIG. 2B
(PRIOR ART)

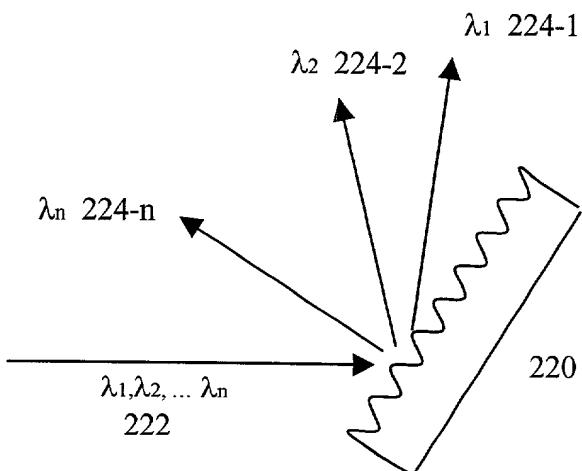
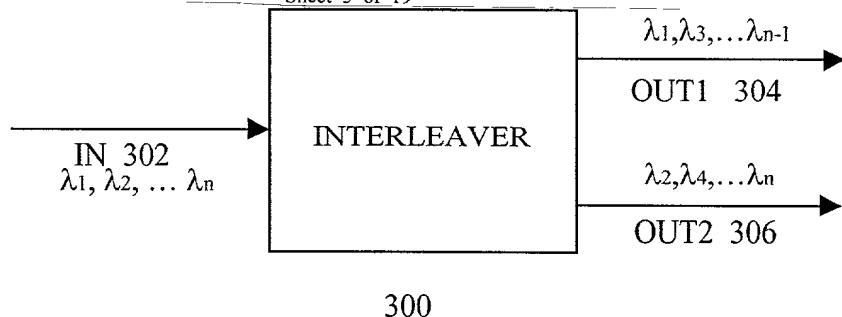


FIG. 2C
(PRIOR ART)



300
FIG. 3A
(PRIOR ART)

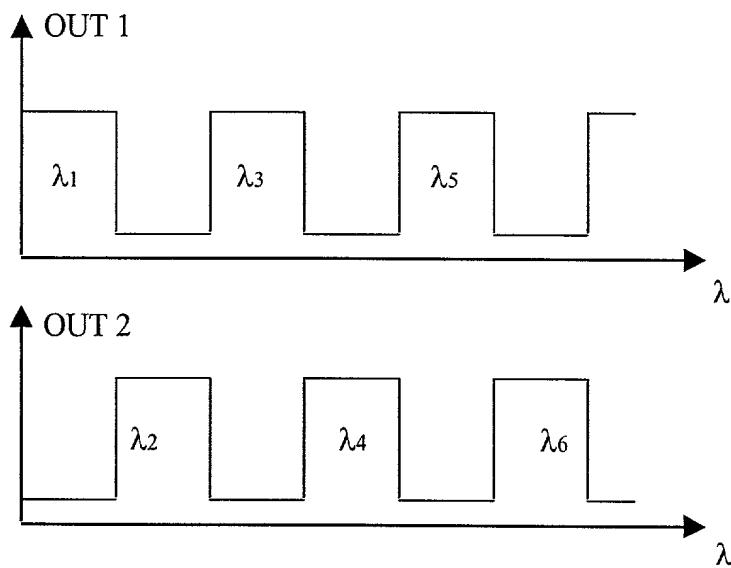


FIG. 3B
(PRIOR ART)

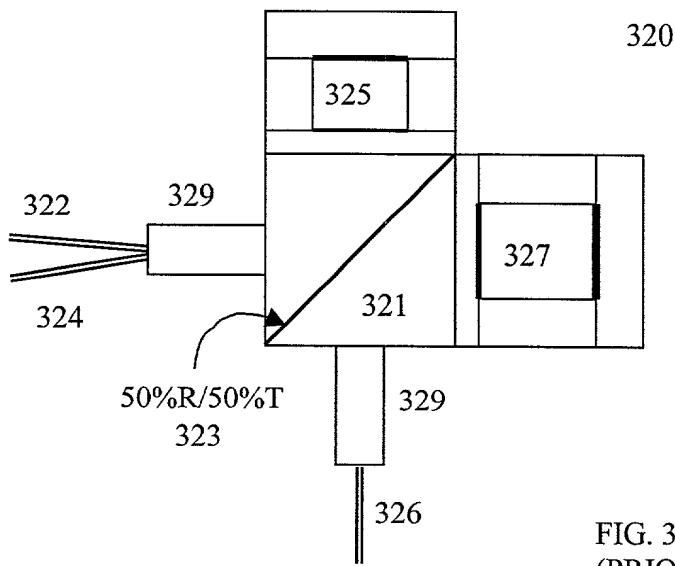


FIG. 3C
(PRIOR ART)

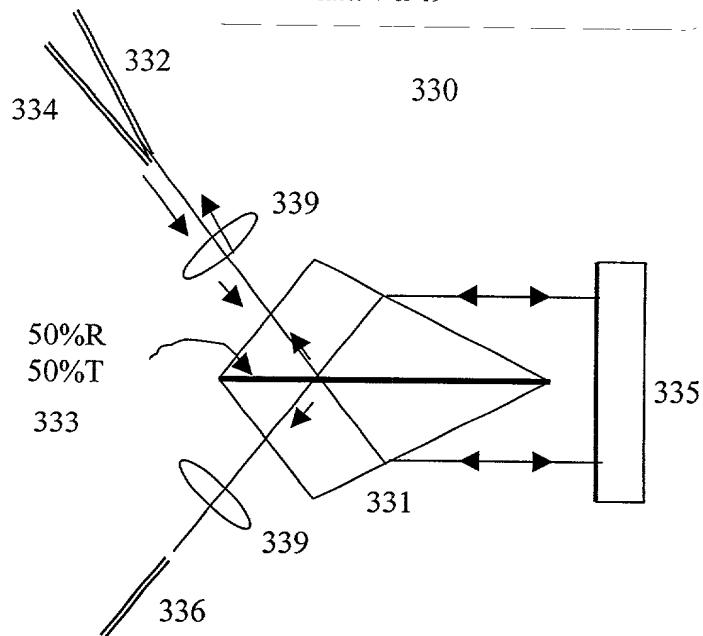


FIG. 3D
(PRIOR ART)

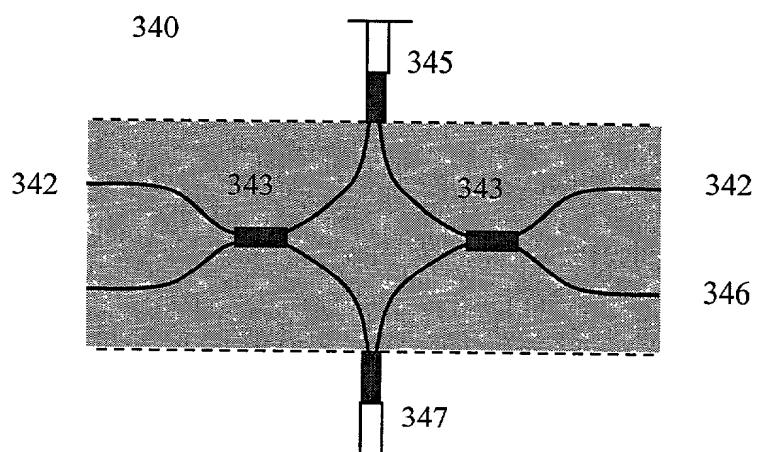


FIG. 3E
(PRIOR ART)

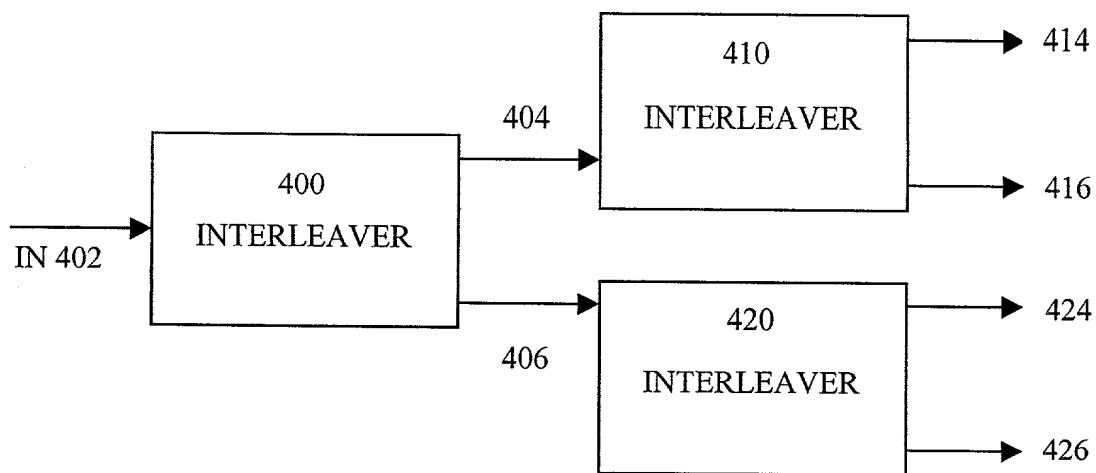


FIG. 4A
(PRIOR ART)

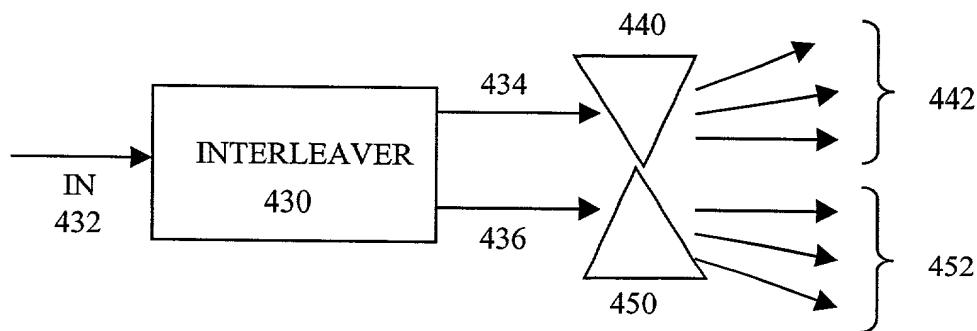


FIG. 4B
(PRIOR ART)

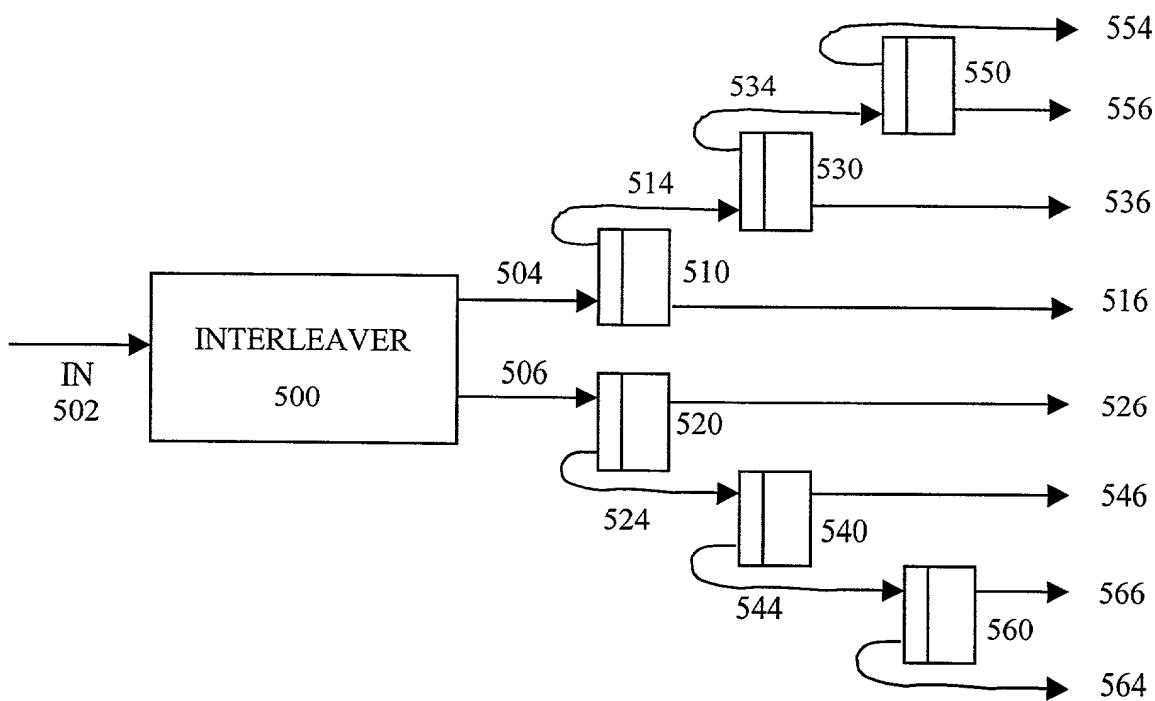


FIG. 5
(PRIOR ART)

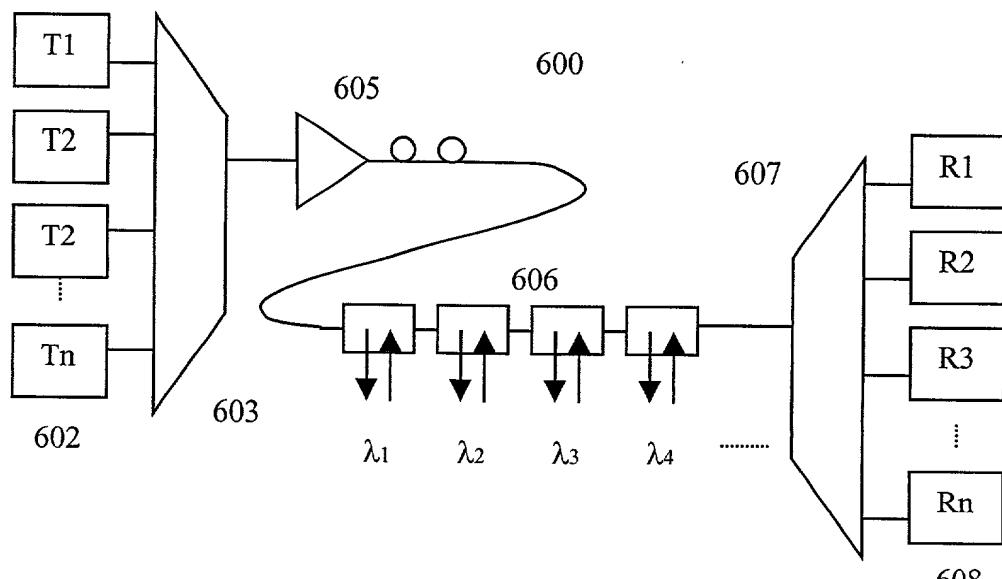


FIG. 6A
(PRIOR ART)

610

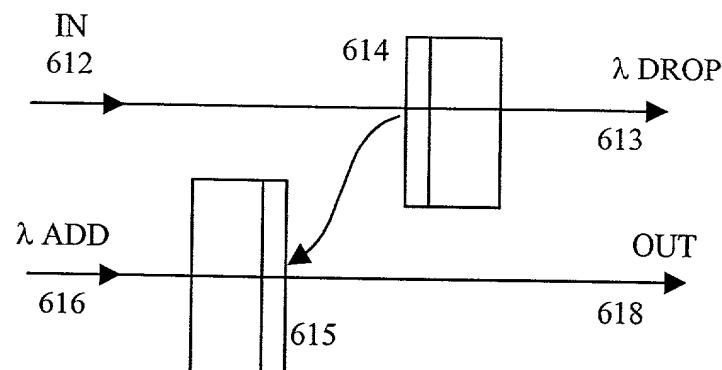


FIG. 6B
(PRIOR ART)

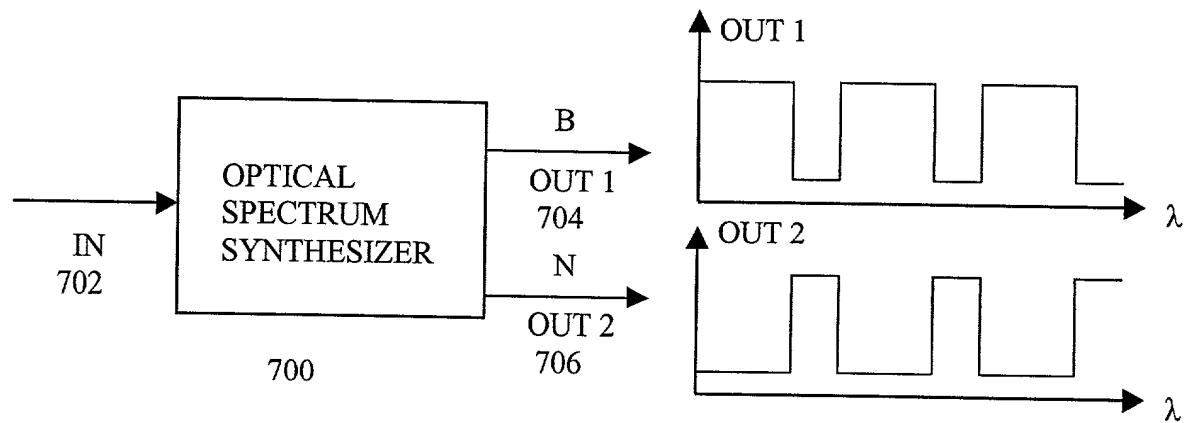


FIG. 7A

FIG. 7B

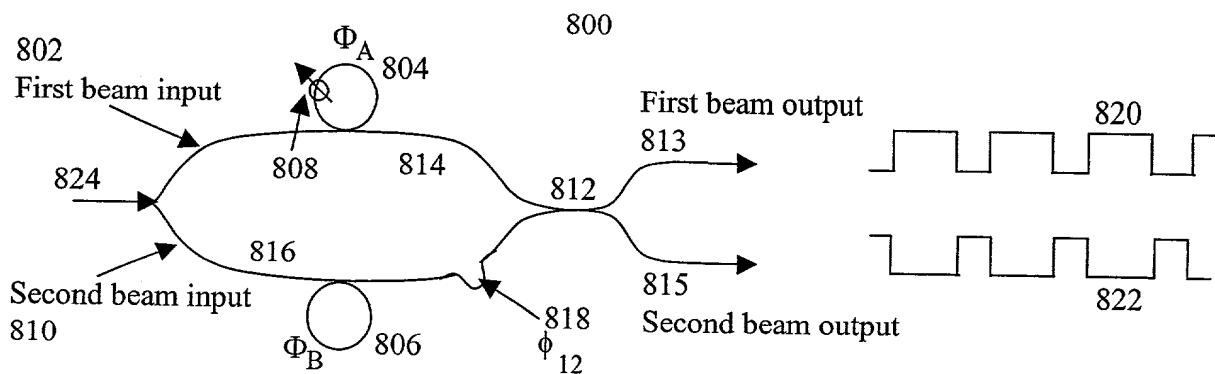


Fig. 8A

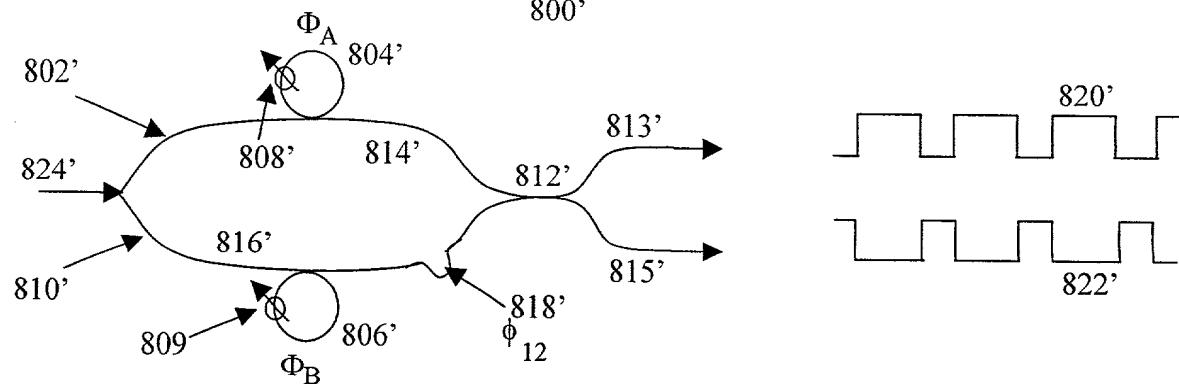


Fig. 8B

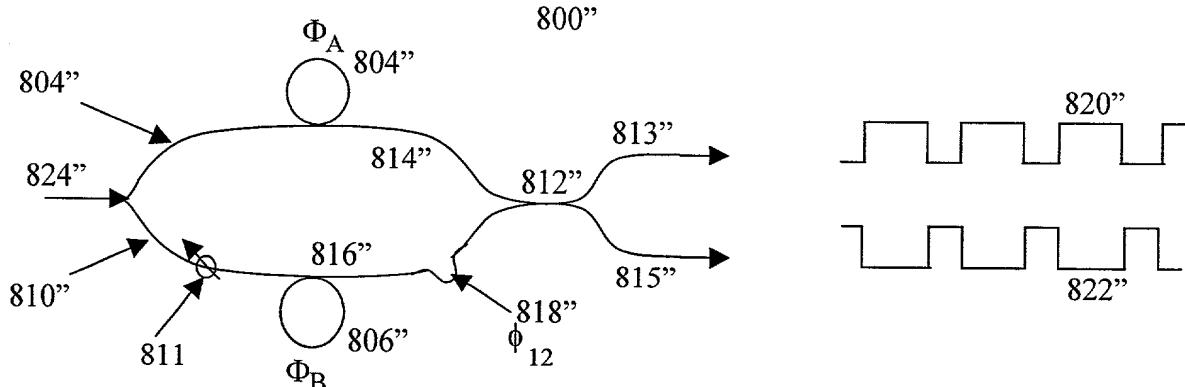


Fig. 8C

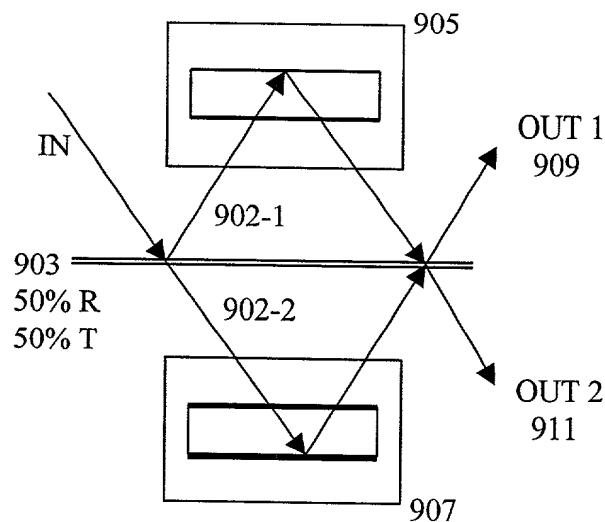


FIG. 9A

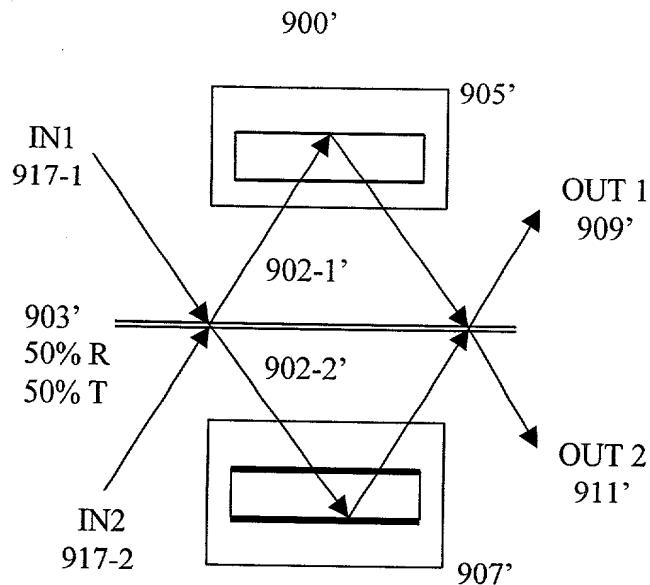


FIG. 9B

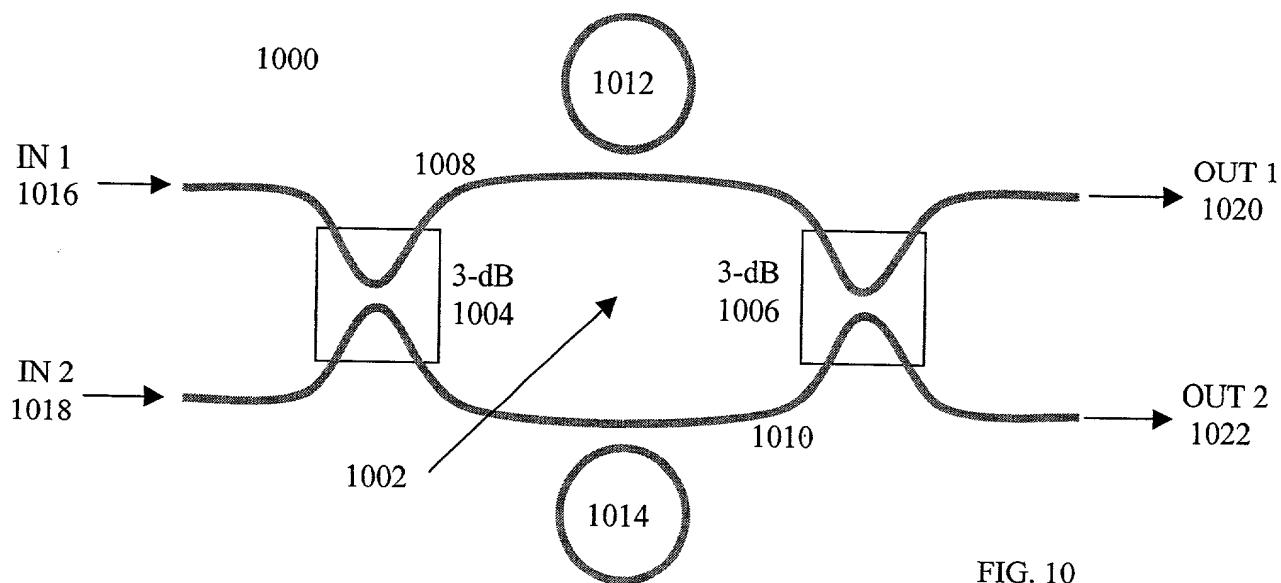
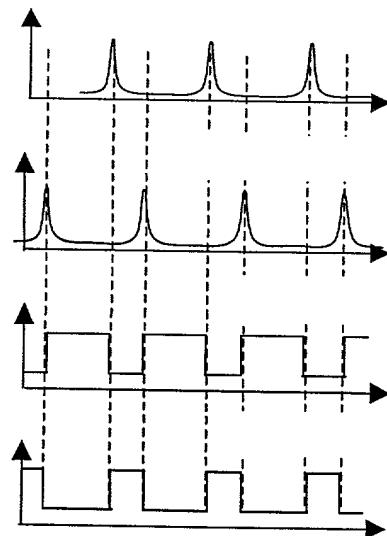


FIG. 10

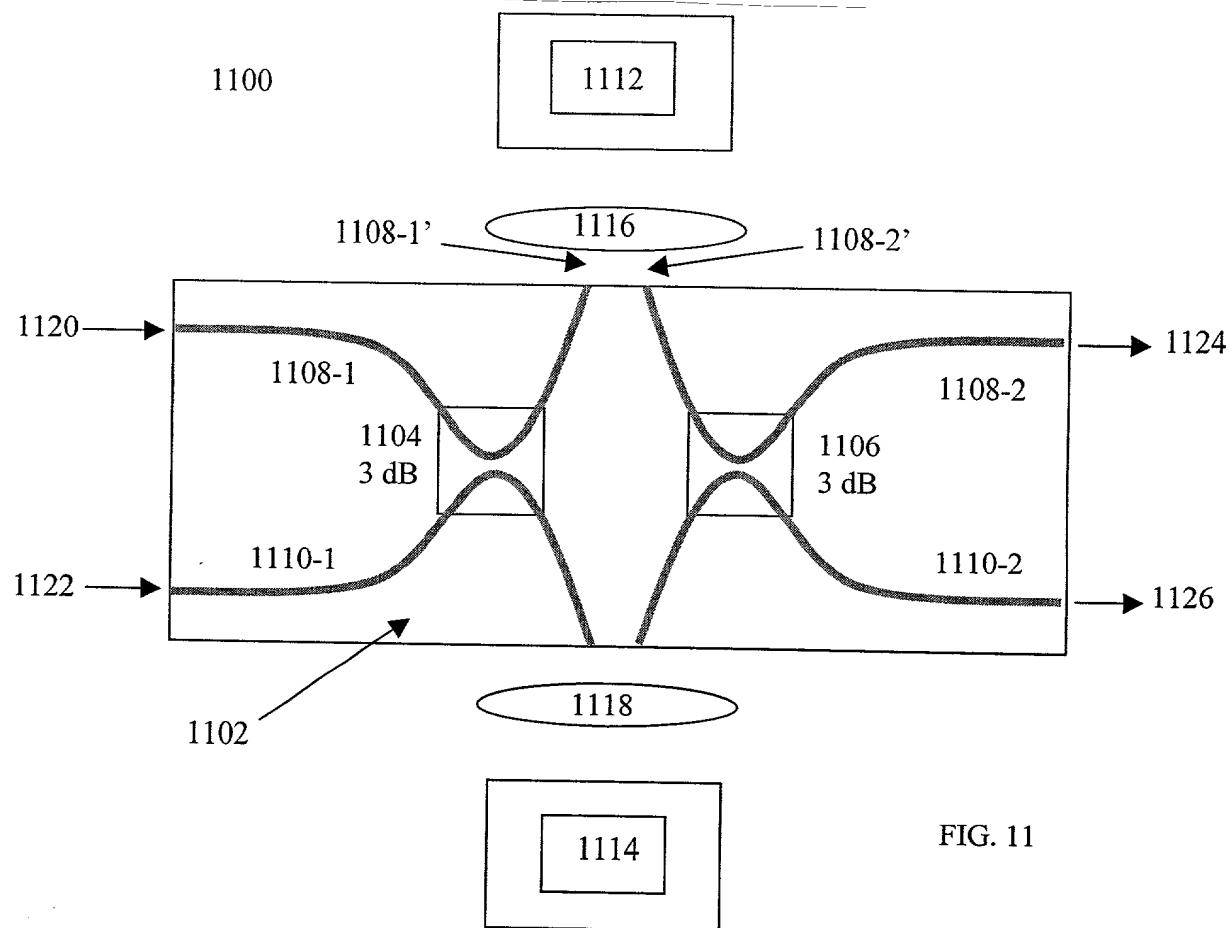


FIG. 11

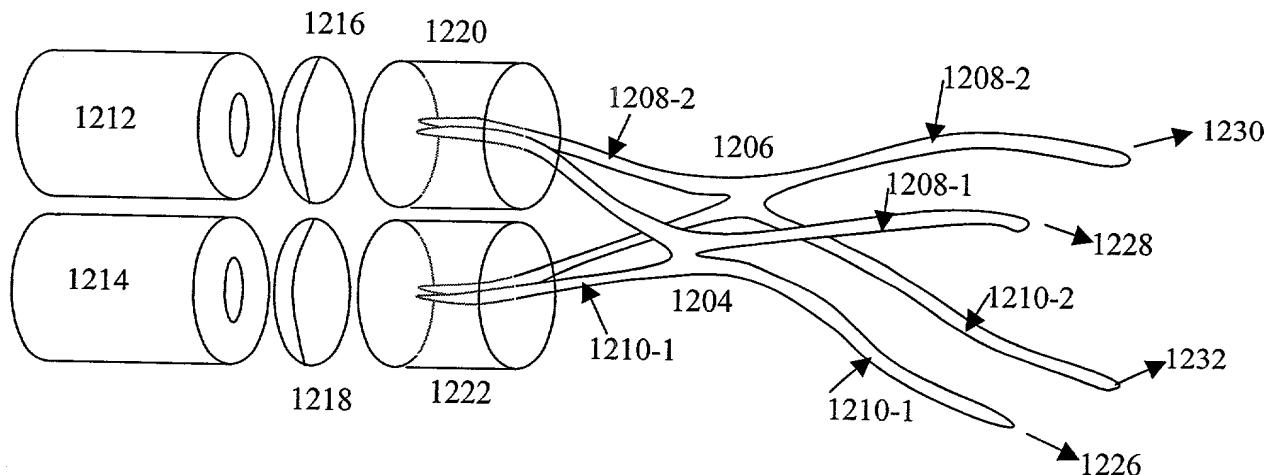


FIG. 12

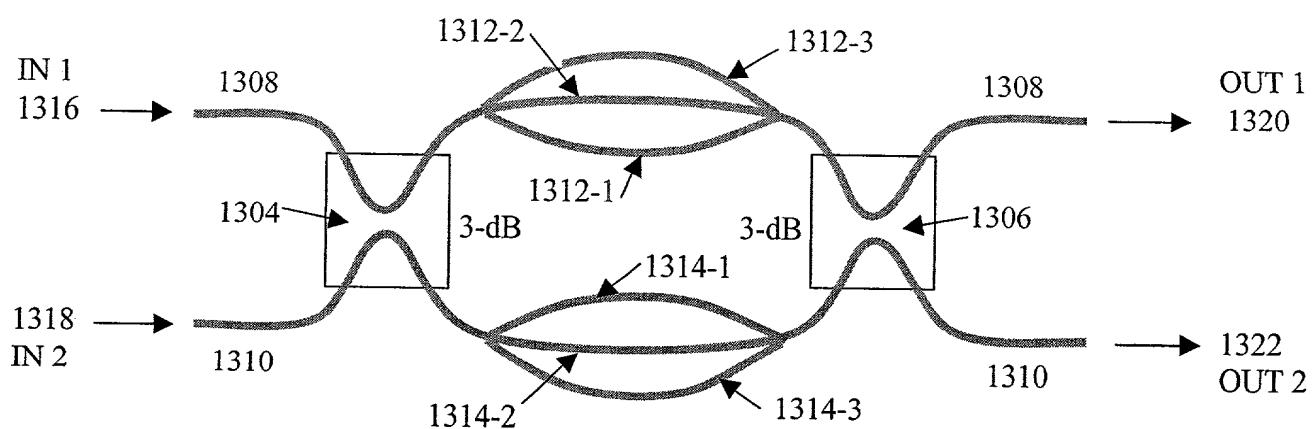
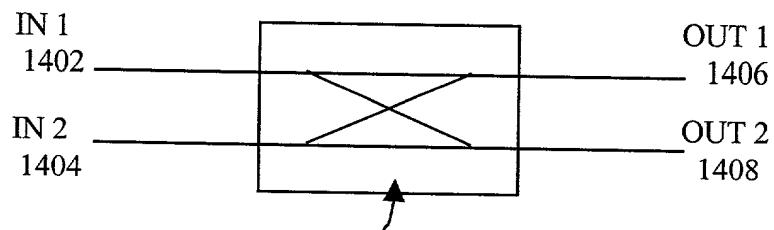


FIG. 13

1400



SPECTRUM EXCHANGER

FIG. 14

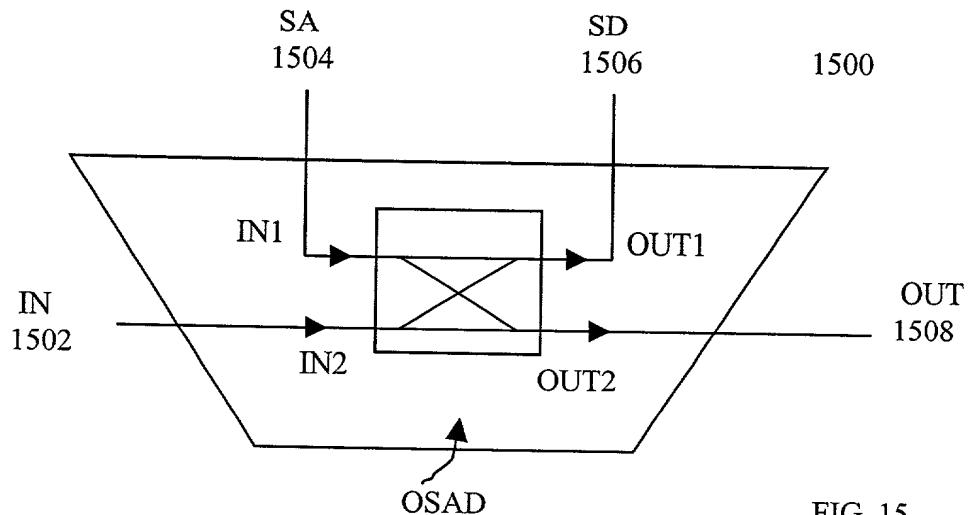


FIG. 15

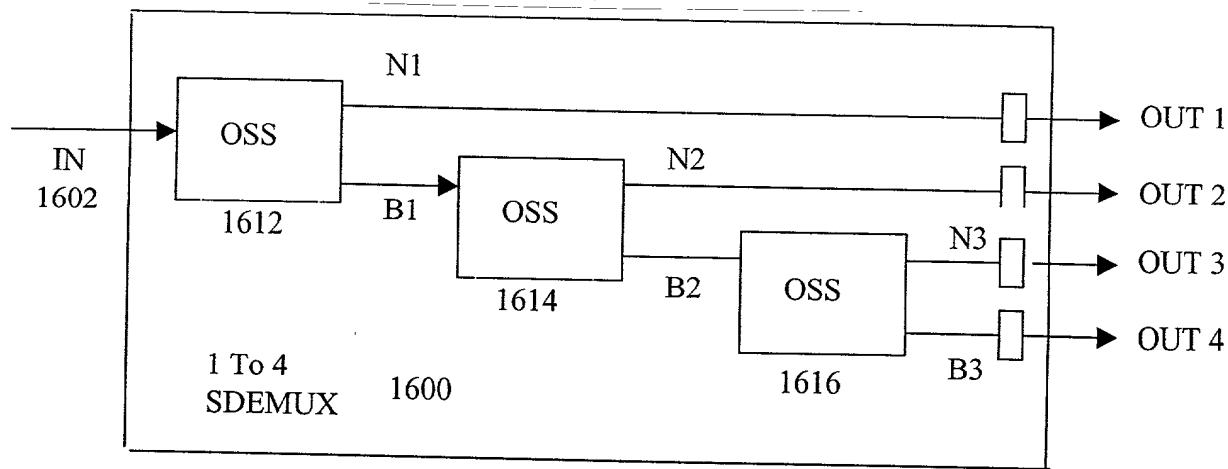


FIG. 16A

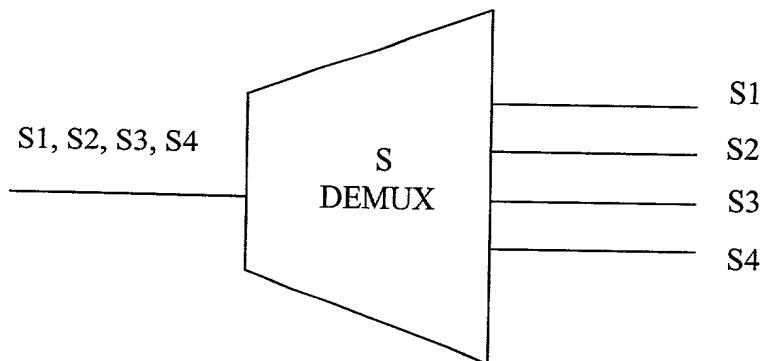


FIG. 16B

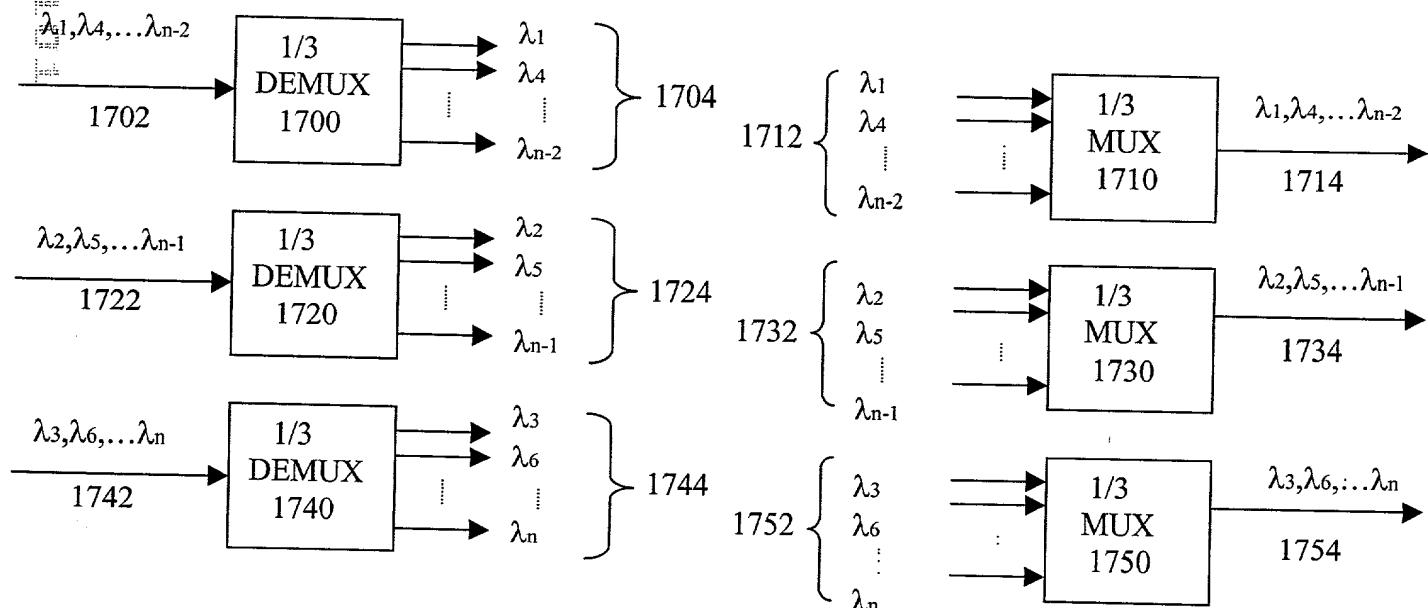


FIG. 17A

FIG. 17B

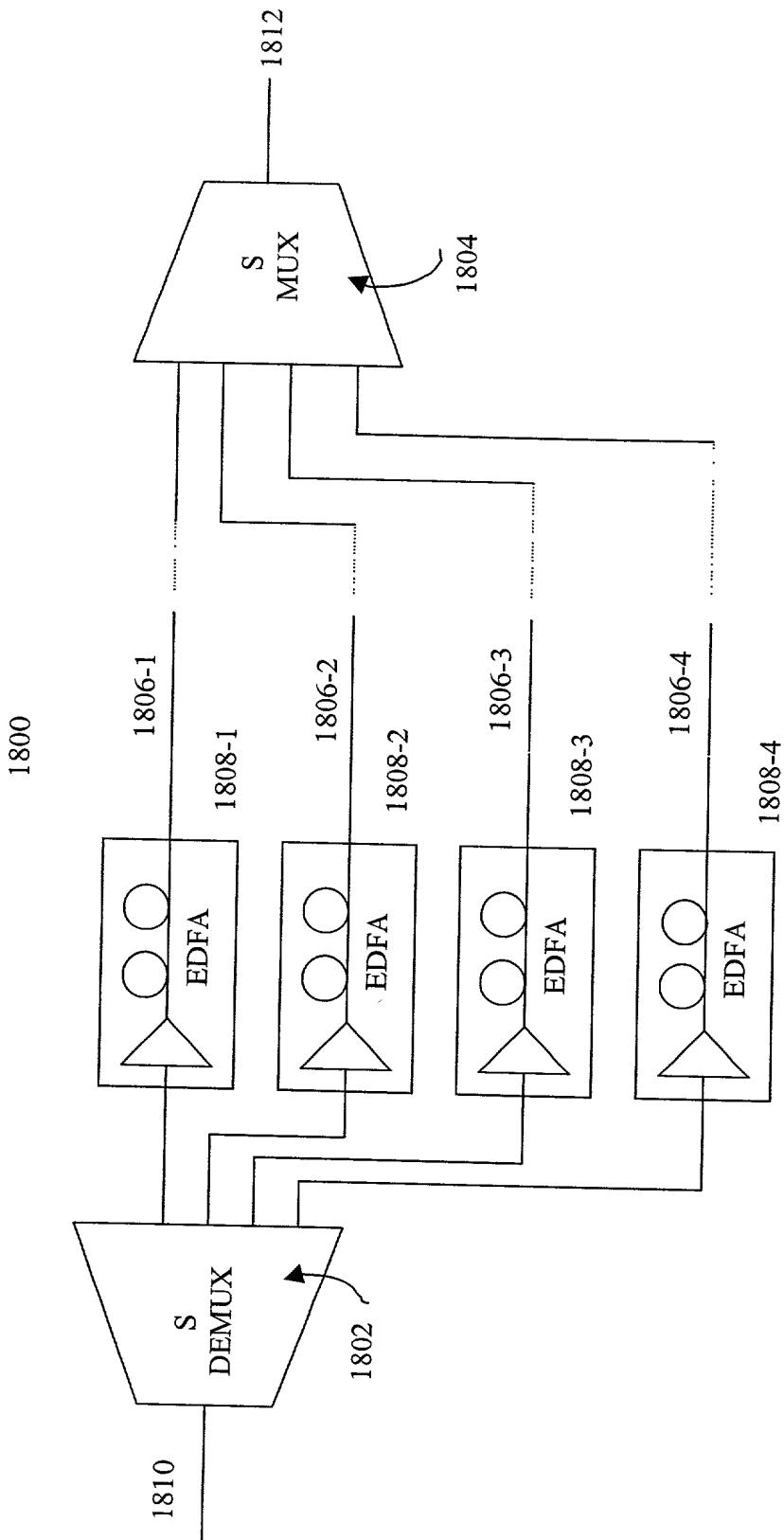


FIG. 18

SPECTRUM ADD-DROP MODULE 1900

Short Title: SPECTRUM DIVISION
MULTIPLEXING FOR HIGH . . .
First Inventor: Charles QIAN
Docket No.: 514152000100

Sheet 14 of 19

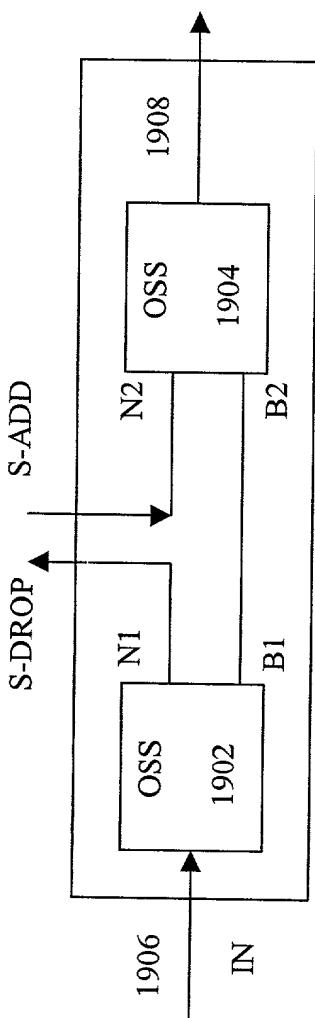


FIG. 19A

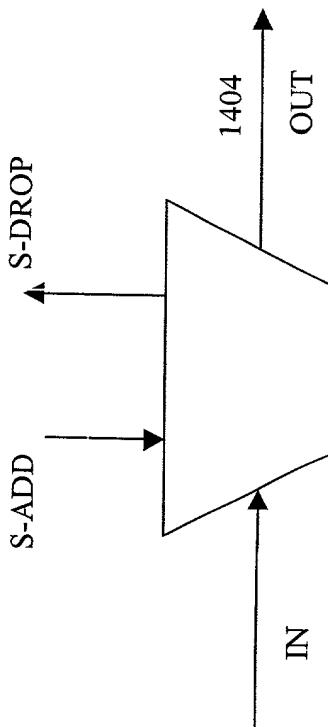


FIG. 19B

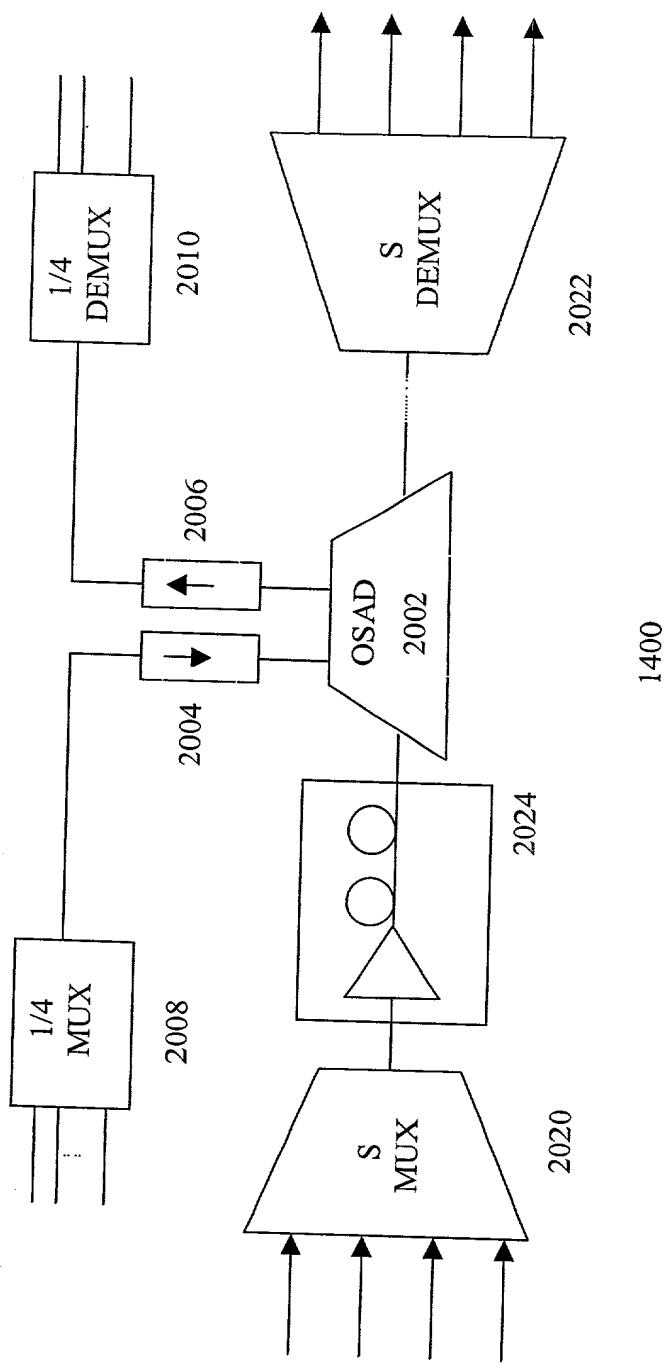


FIG. 20

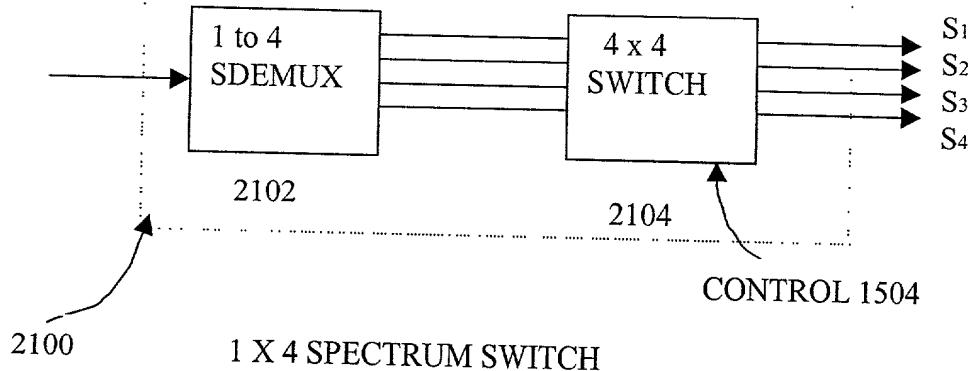


FIG. 21A

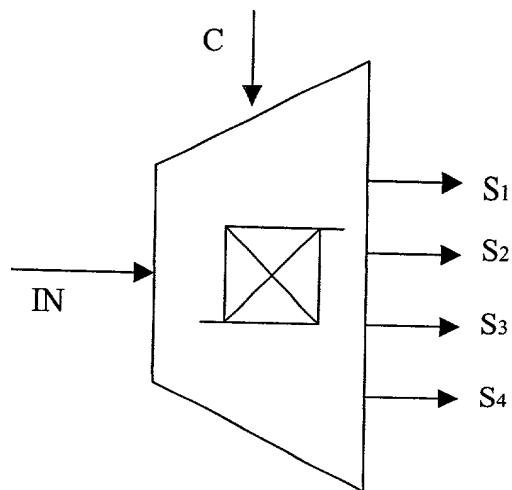
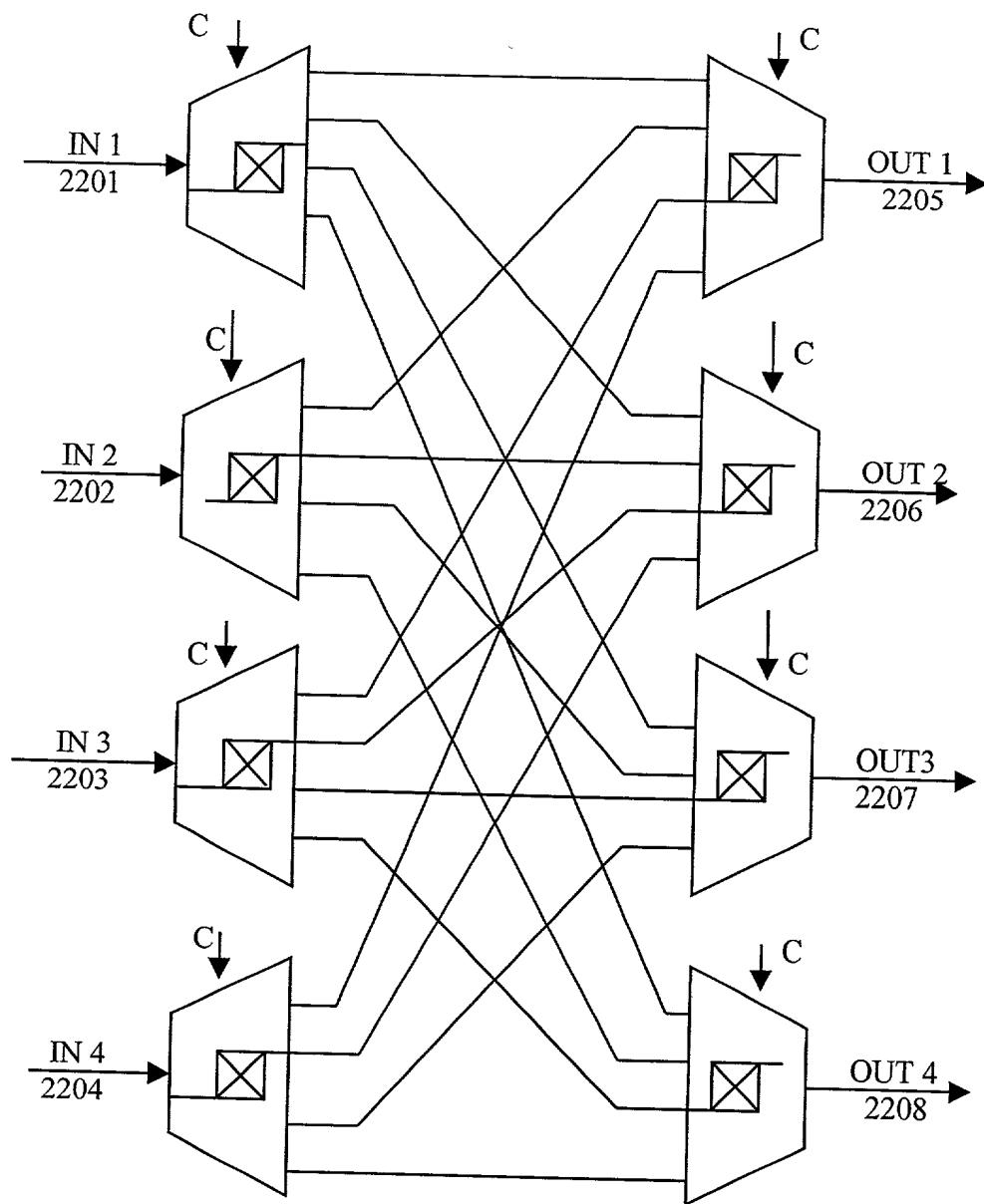


FIG. 21B

2200



4x4x4 SPECTRUM CROSS-CONNECT

FIG. 22

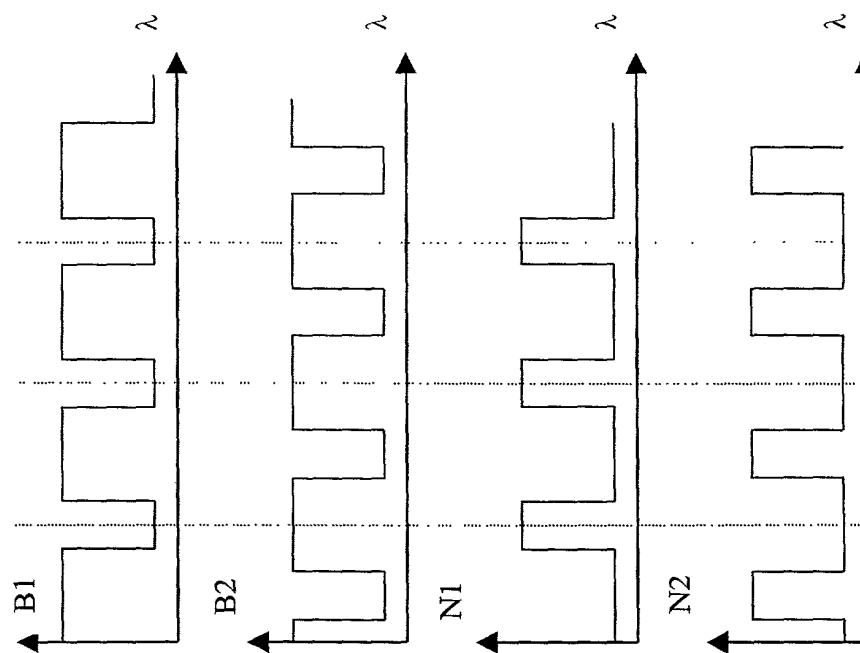


FIG. 23B

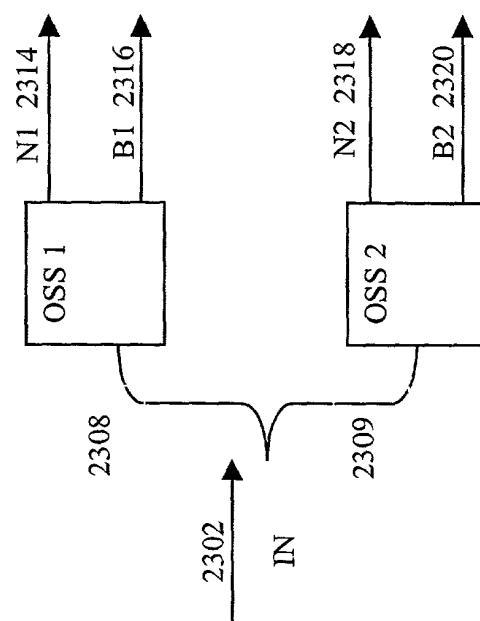


FIG. 23A

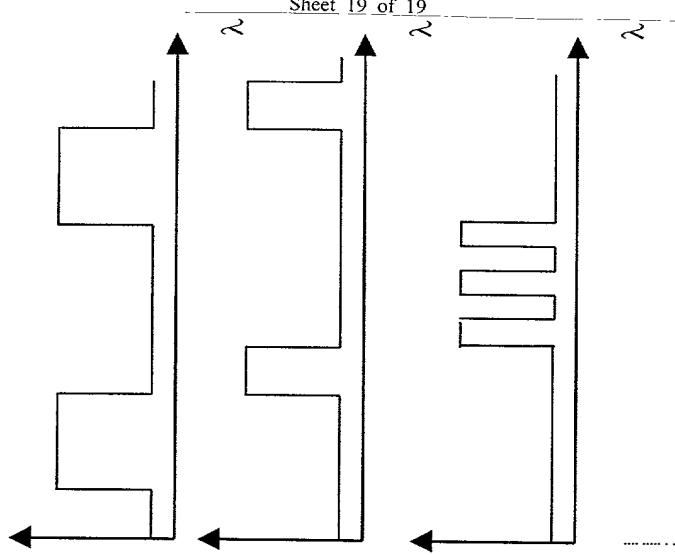


FIG. 24B

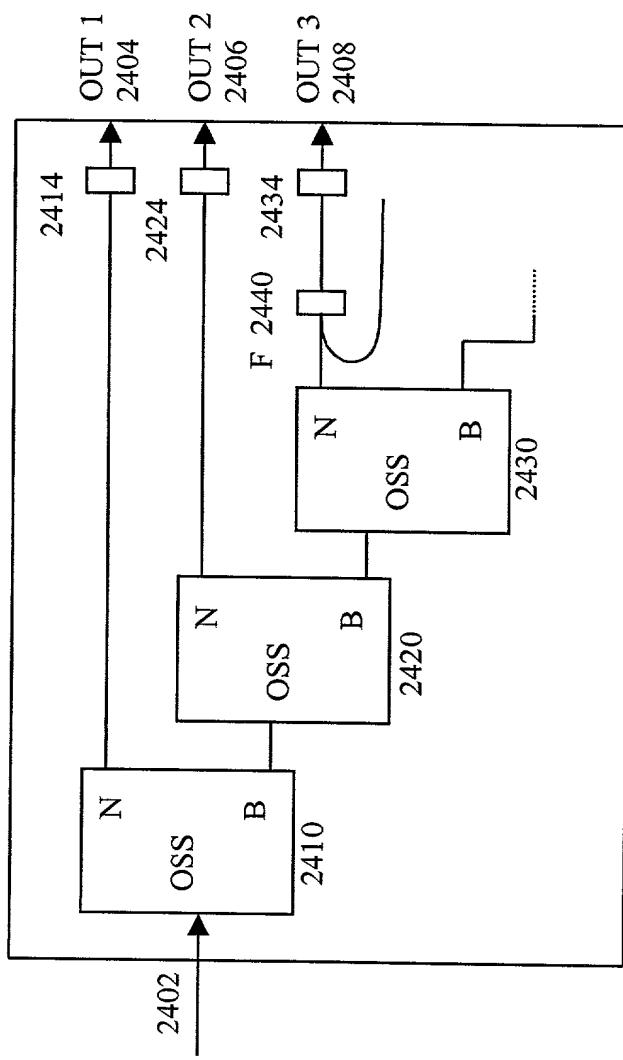


FIG. 24A